

FIG. 2

PRIOR ART

EKT PCM HWY 122,123

302

DATA
TRANSCIVER AND
MUX
(10KB/S)

301

MICROCONTROLLER

307

MULTI-DROP
ASYNC COMM
LINK

303

32K x 8 SRAM

TIMESLOT
COUNTER
FROM
100

TIMESLOT
GENERATION

304

306

ELECTRONIC
KEY
TELEPHONE
INTERFACES

To
EKT
phones
(FIG. 14)

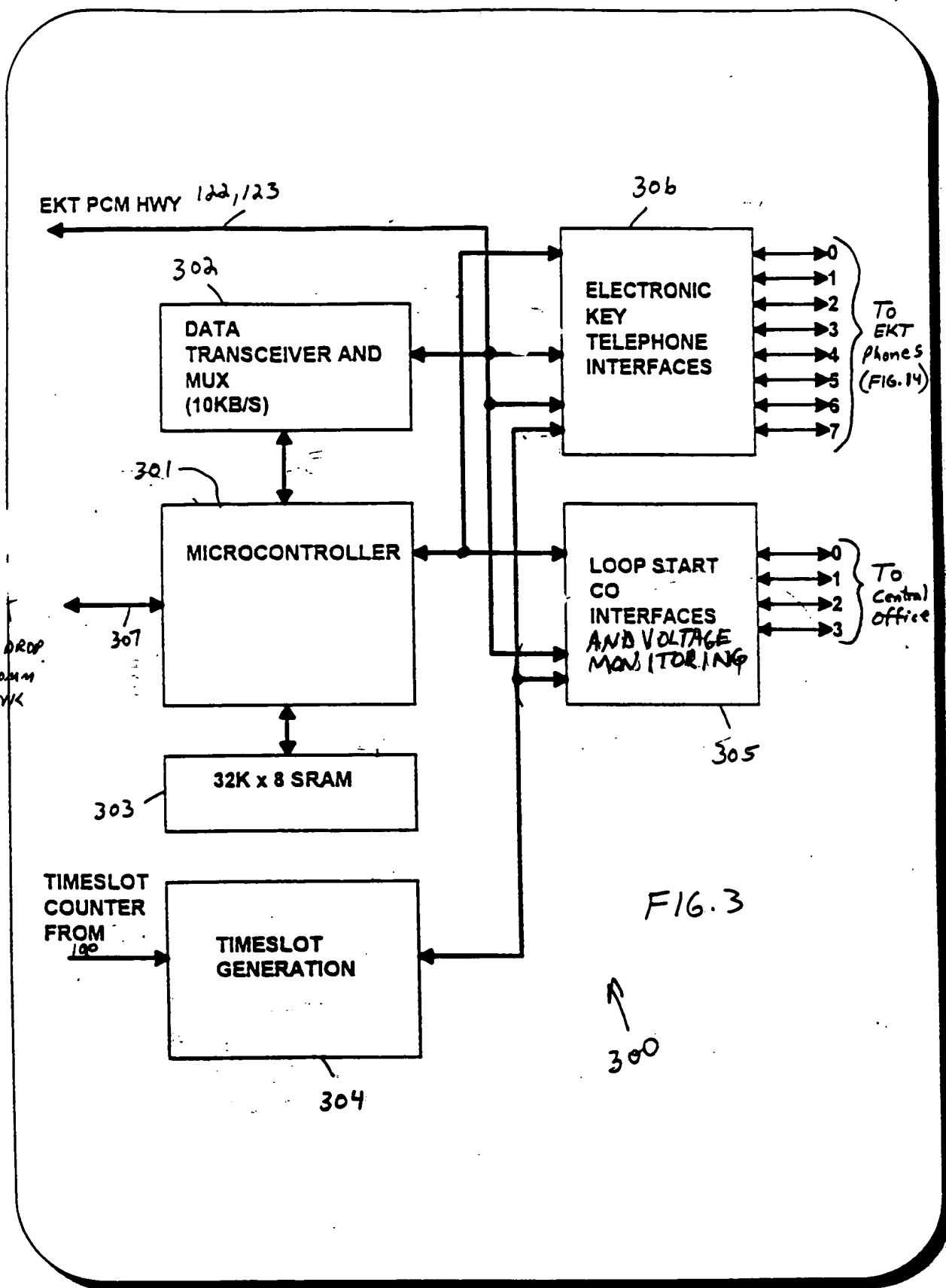
LOOP START
CO
INTERFACES
AND VOLTAGE
MONITORING

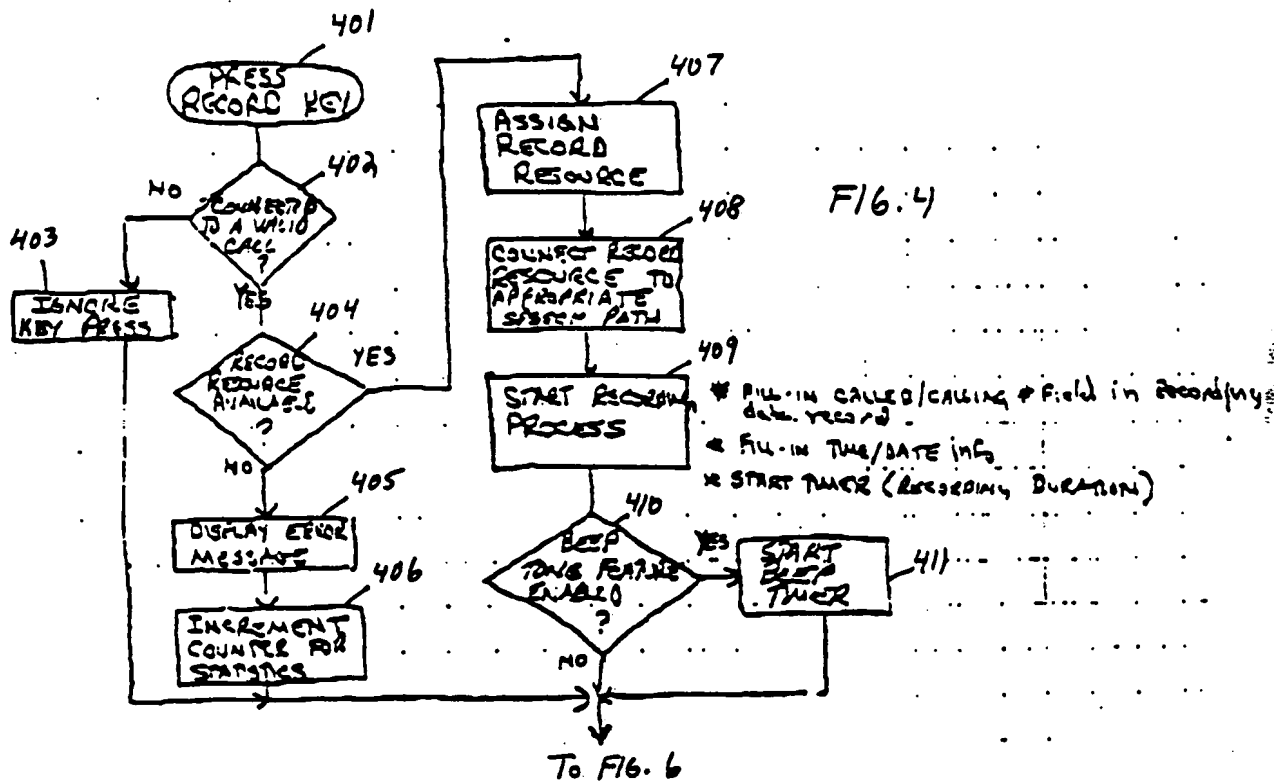
To
Central
Office

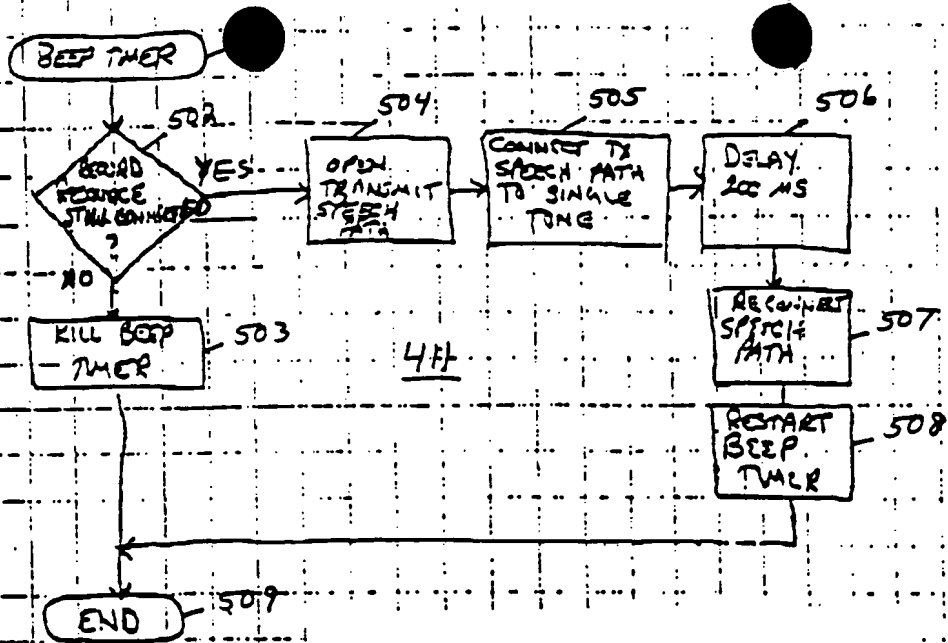
305

FIG. 3

300







HANG-UP OR PRESS RECORD KEY 601

STOP RECORDING PROCESS 602

SAVE RECORDING IN MAILBOX (RECORDING SECTION) 603

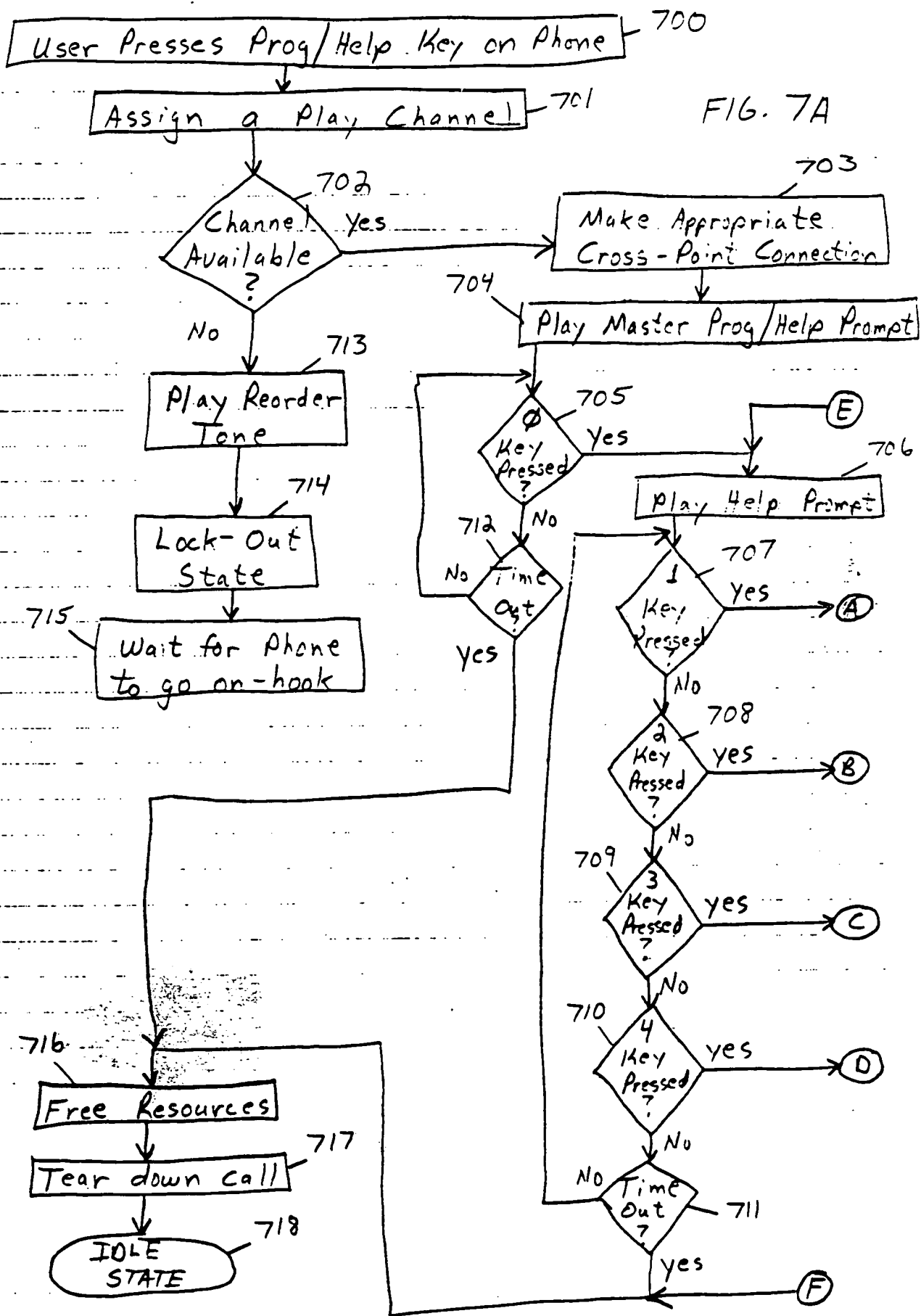
KILL BEEP TIMER 604

FREE RECORD RESOURCE 605

DECONNECT SPEECH PATH FROM RECORD RESOURCE 606

END 607

FIG. 6



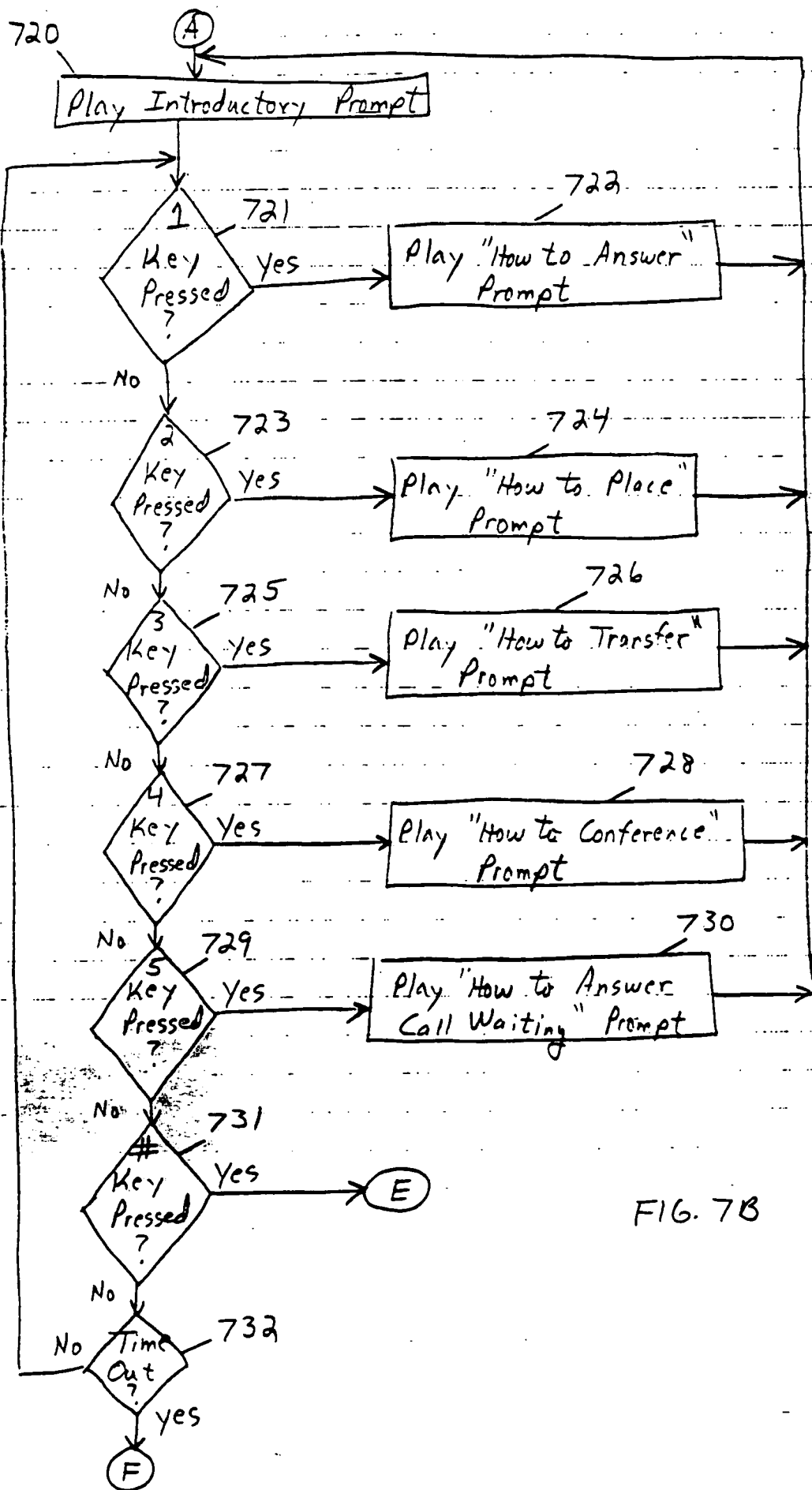


FIG. 7B

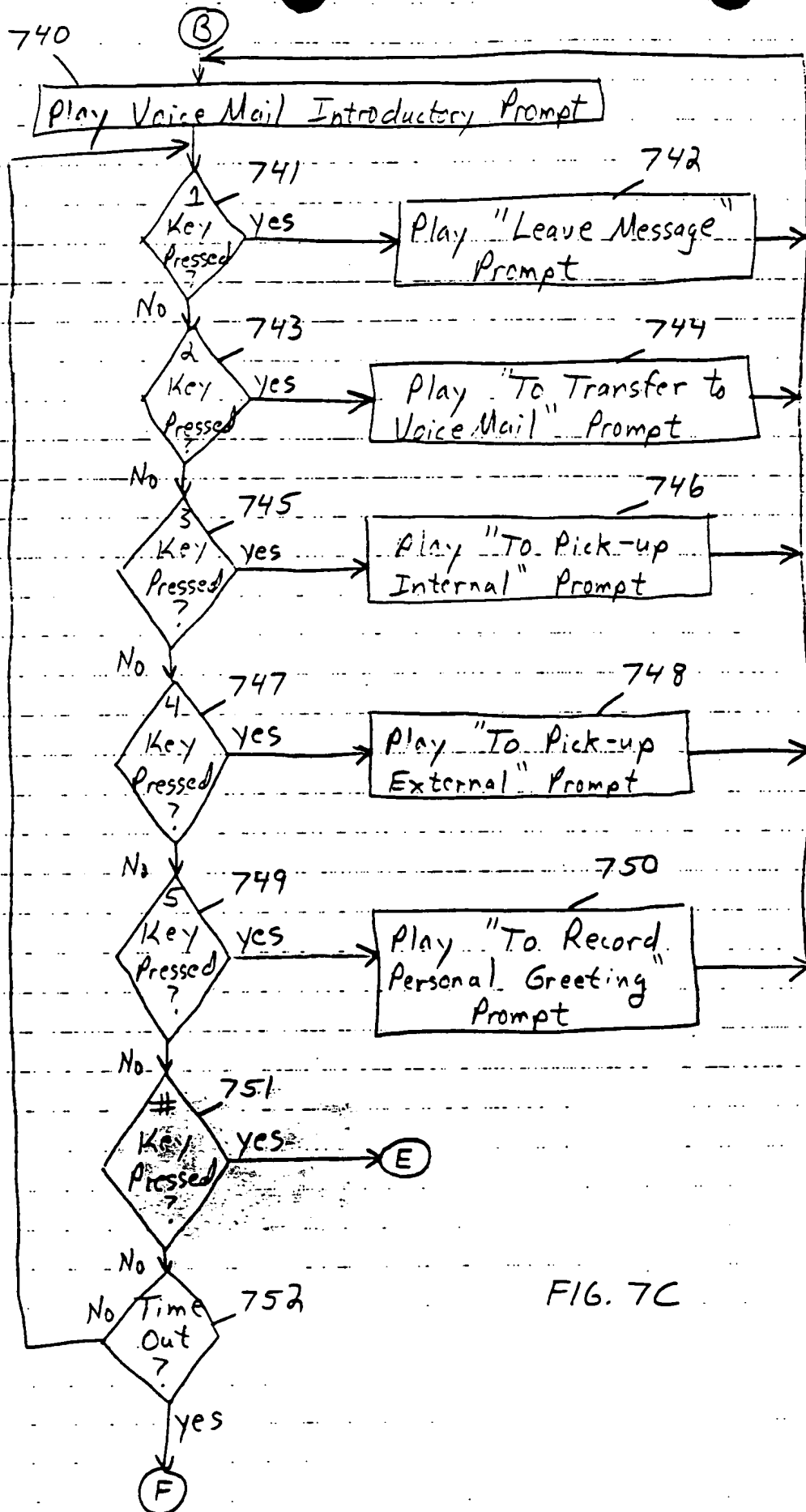


FIG. 7C

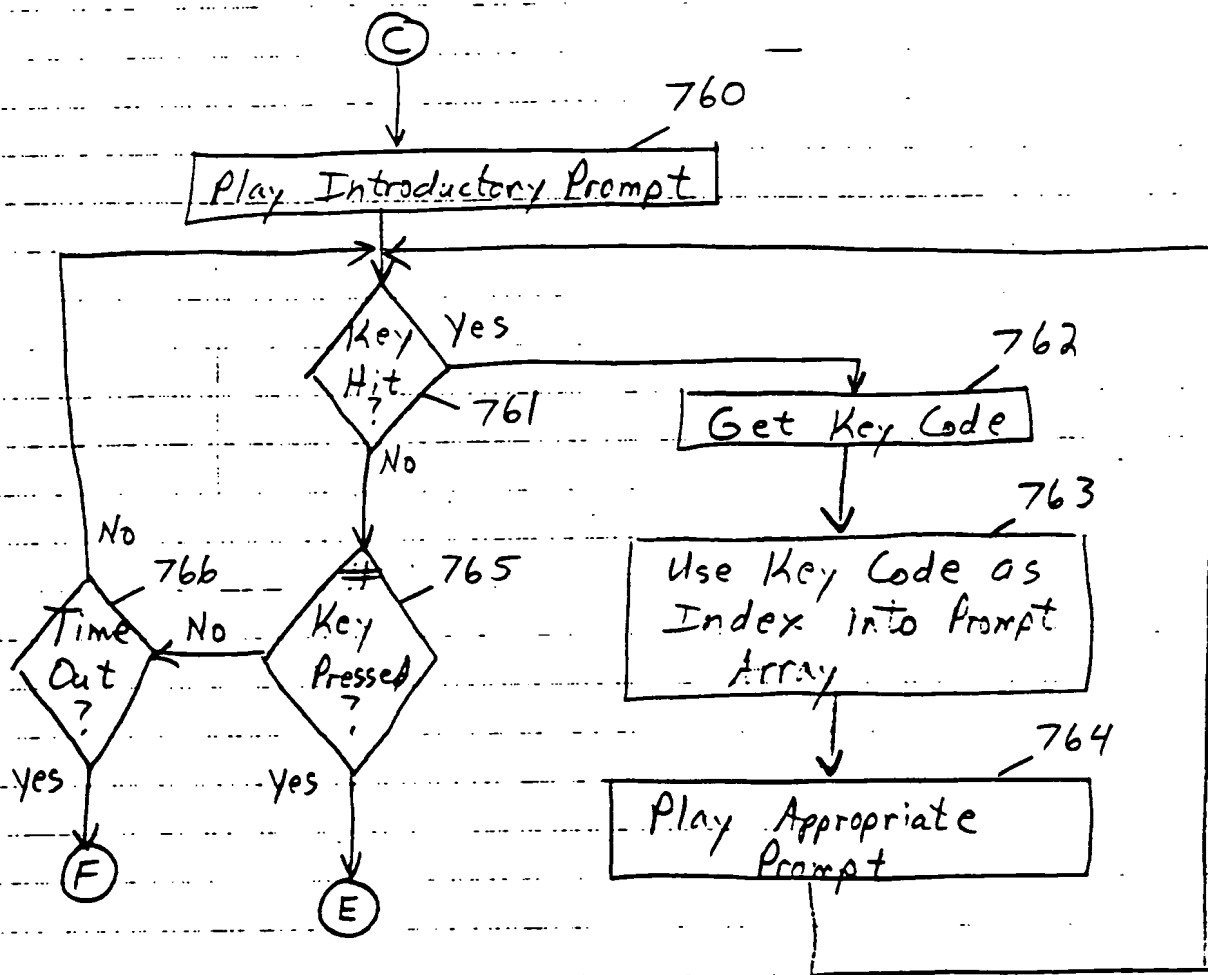


FIG. 7D

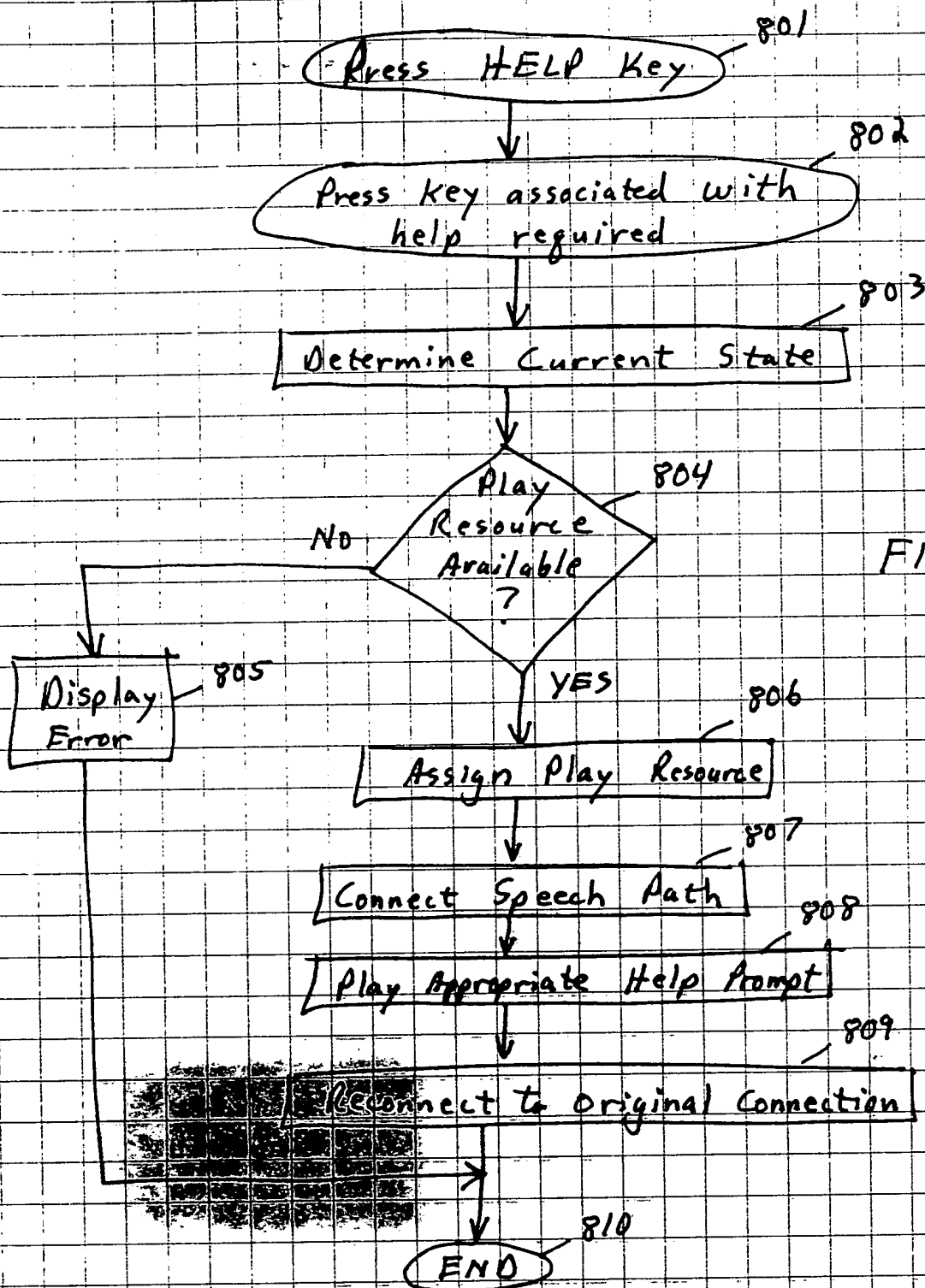
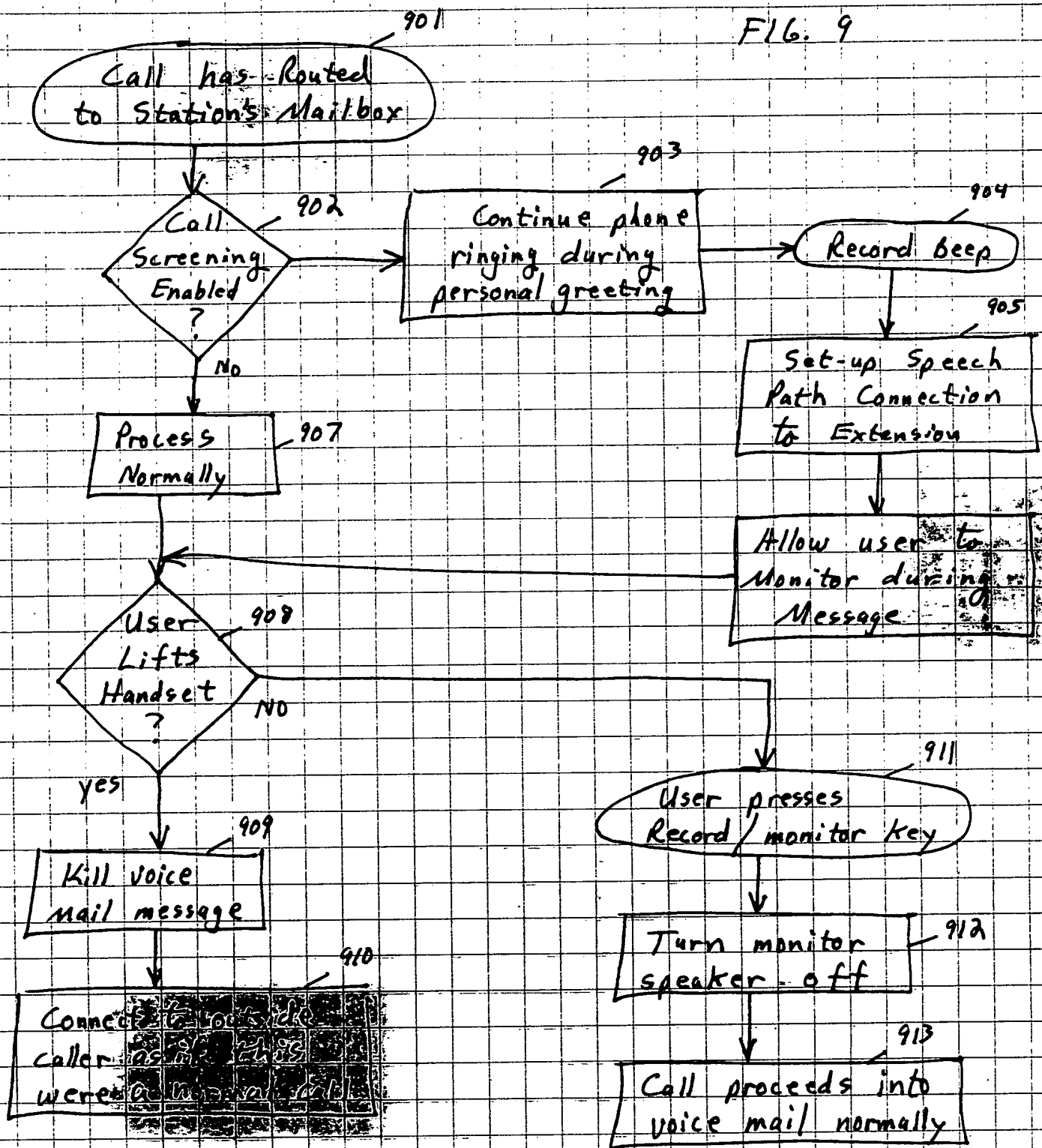


FIG. 9



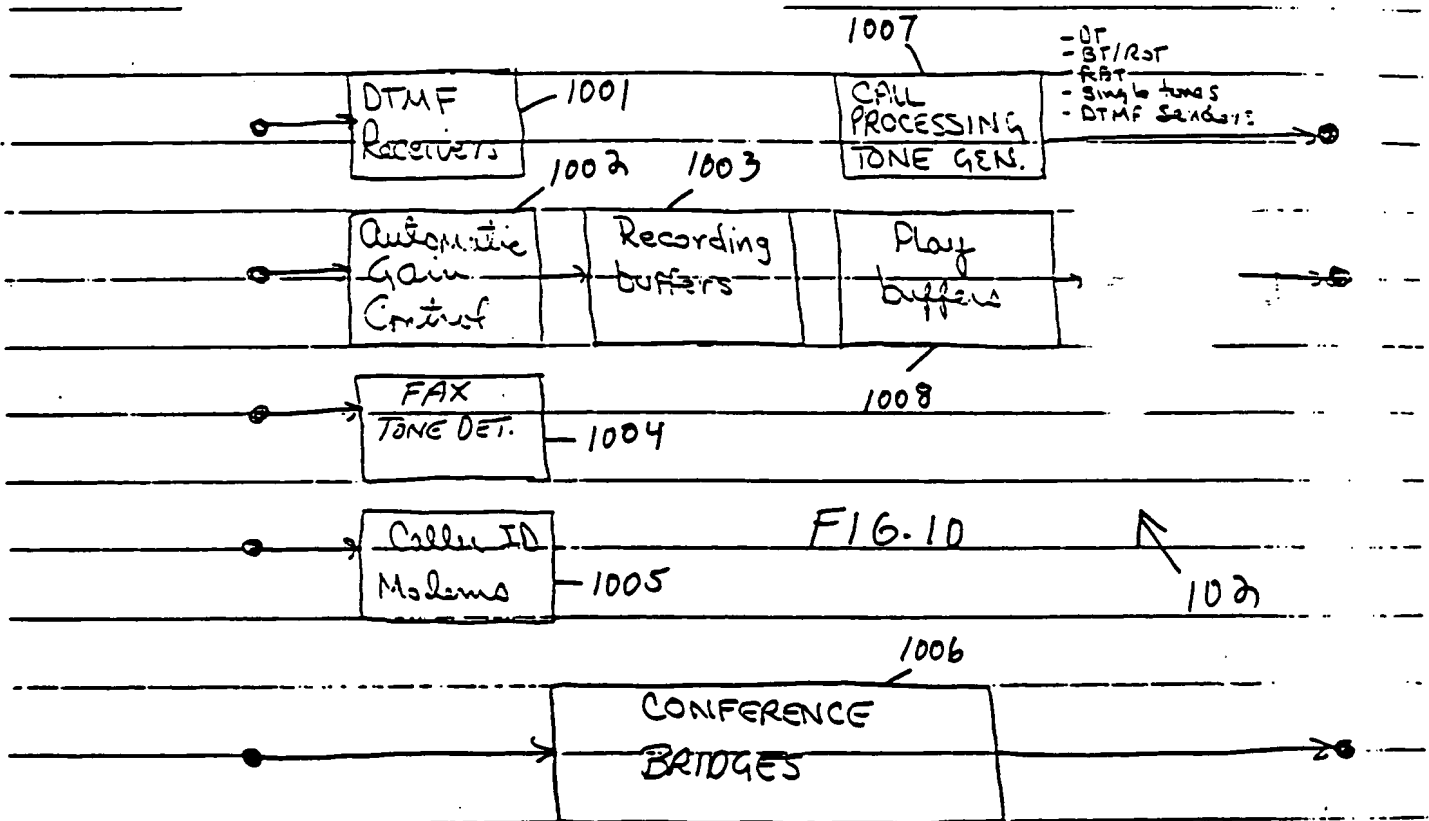


FIG. 11

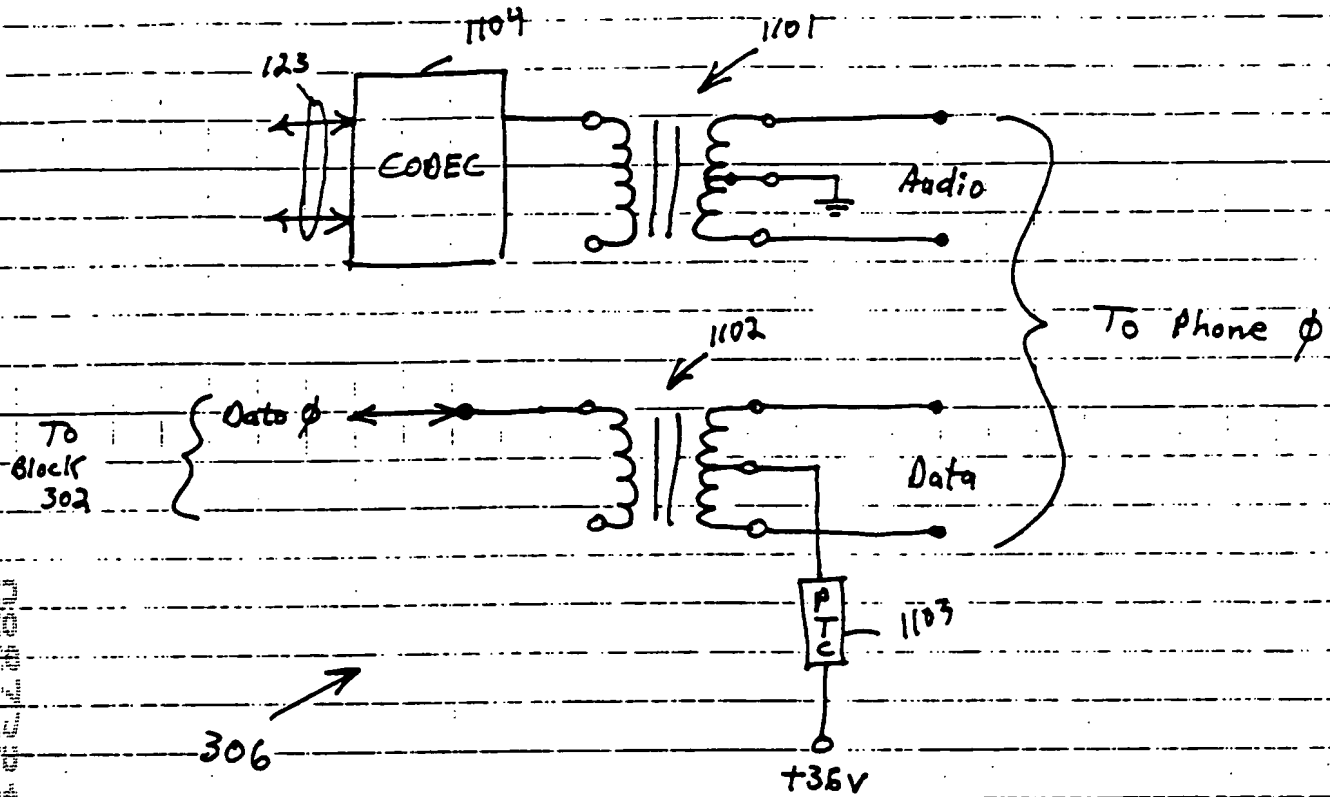
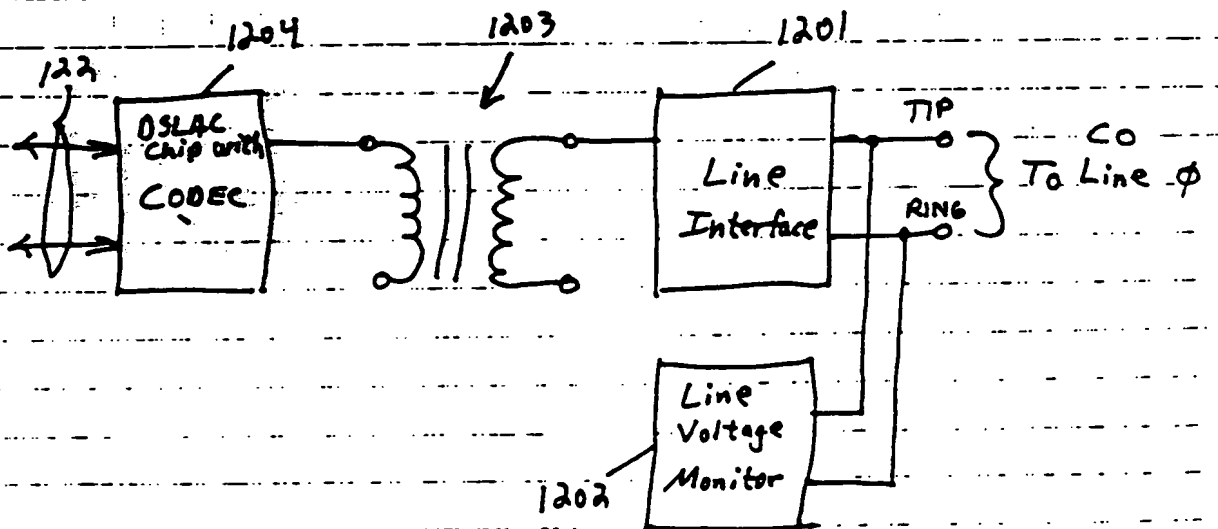


FIG. 12



20250303

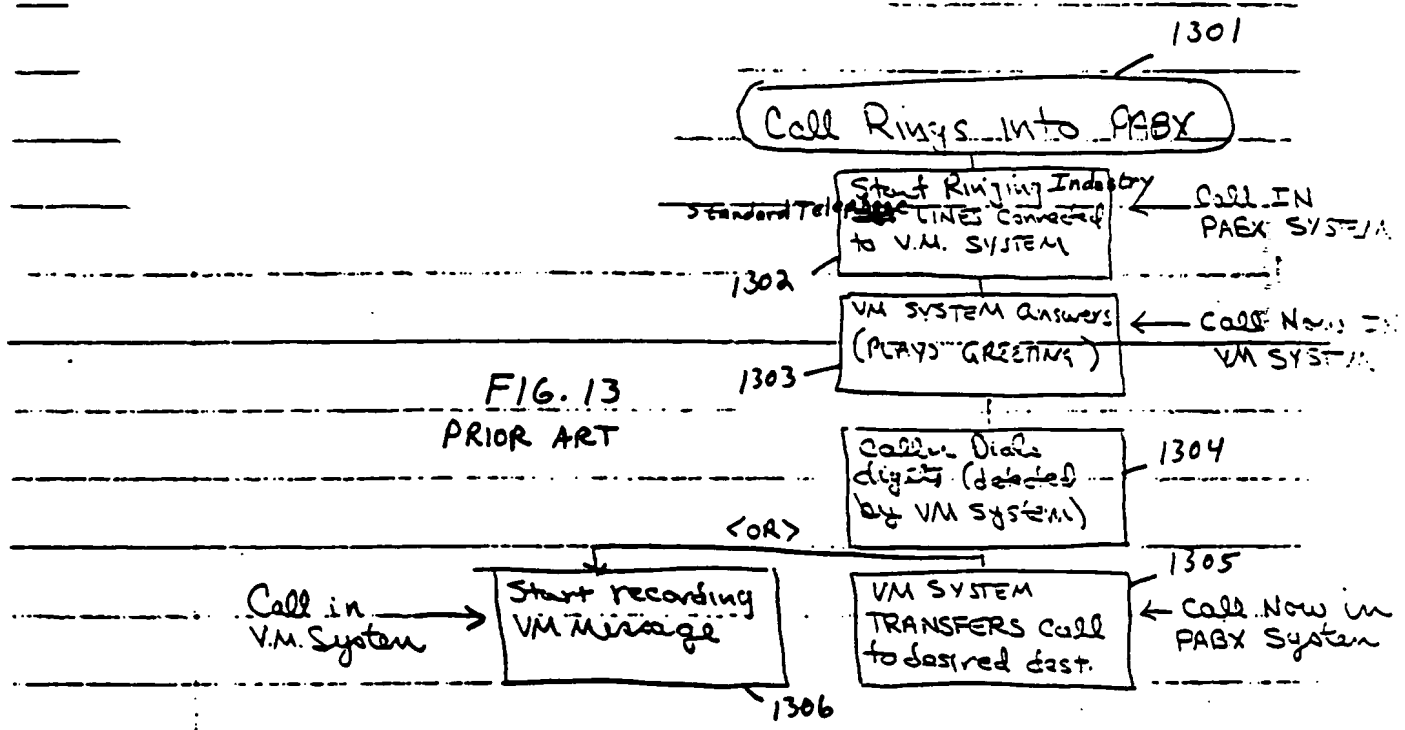
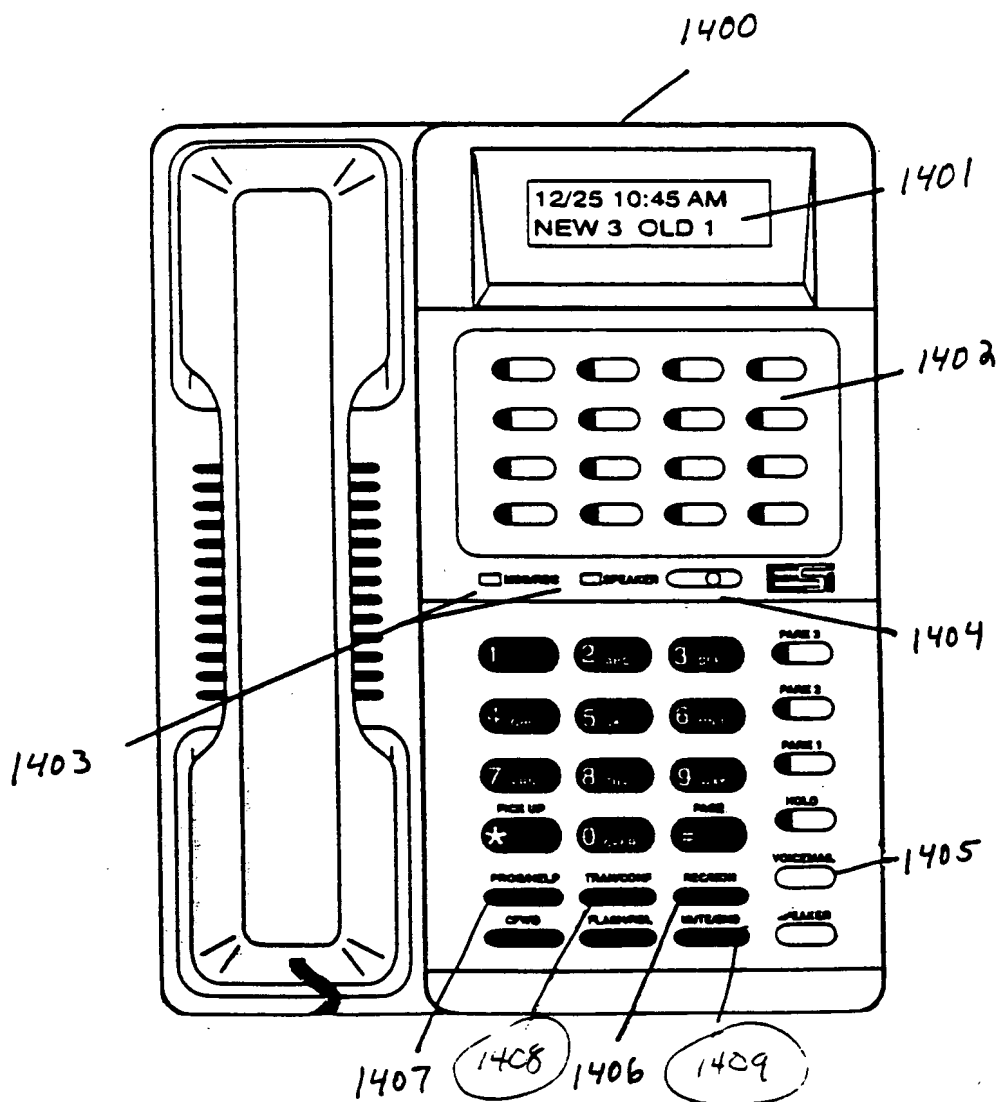


FIG. 14



Call Received on CO Line 1501

Digital Cross-Point Matrix
Connects Call to an Available
Play Channel, DTMF Receiver and Fax Tone Detector 1502

Microprocessor transfers Speech
Data from Hard Disk to Play Buffer 1503

Fax
Tones
Detected? 1504

yes

Connect Call Through
Digital Cross-Point Matrix
to Analog Port Via
DSLAC 1505

DTMF
Tones
Detected? 1506

yes

Connect Call Through
Digital Cross-Point Matrix
to Extension via P-Card 1507

Time
Out
? 1508

yes

Free Resources 1509

Tear Down Call 1510

IDLE 1511

FIG. 15

User Listening to a Voice Mail Message
(New or Old Voice Mail or Recording) 1601

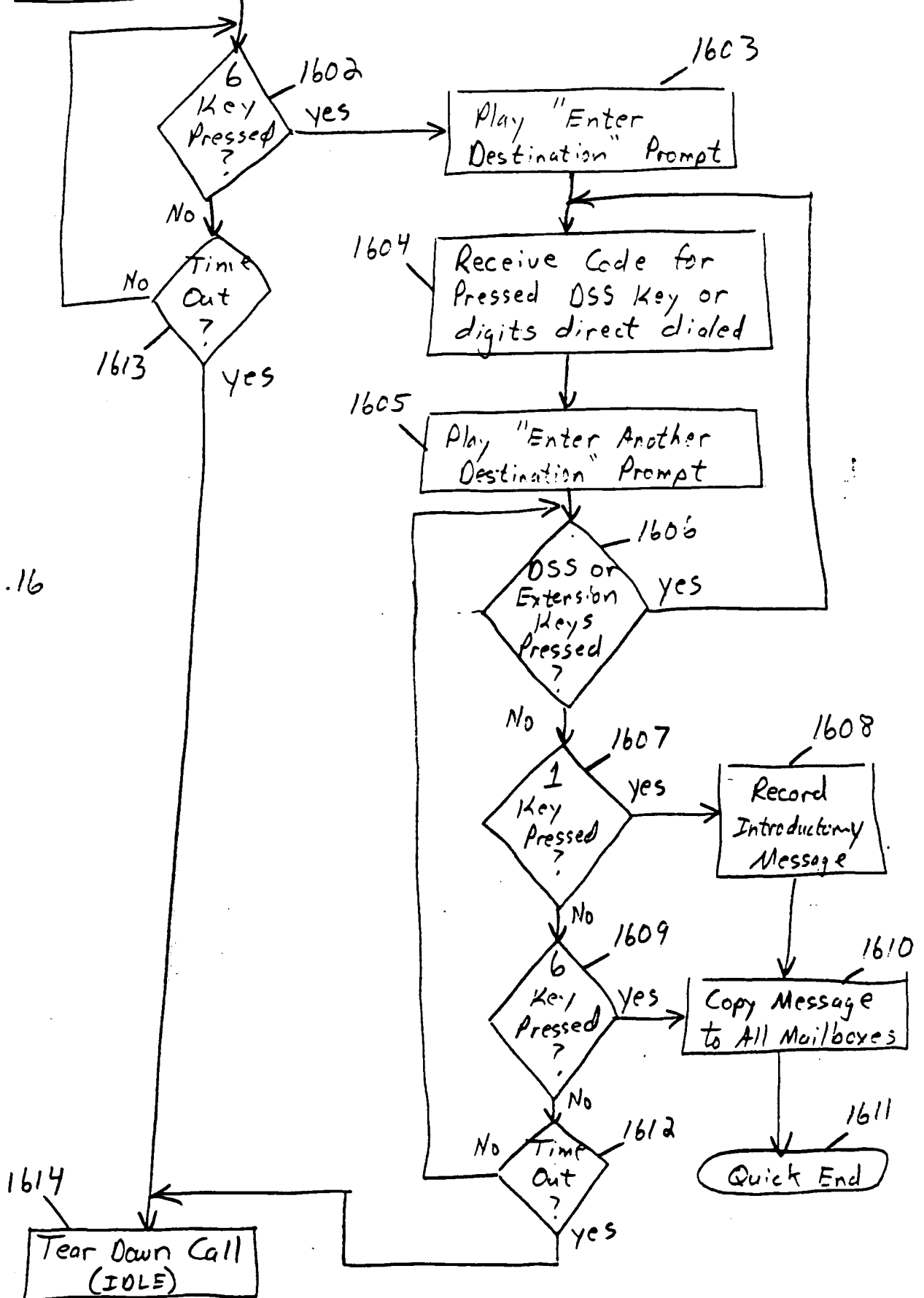


FIG. 16

